

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-38 (cancelled).

1-39 (currently amended). A process for preparing a catalyst active for the fluid bed acetoxylation of ethylene to produce vinyl acetate, which process comprises the steps of:

(a) impregnating microspheroidal silica support particles by the incipient wetness technique with an aqueous solution of palladium and gold compounds, whilst agitating the support particles;

(b) drying the impregnated support particles produced in step (a) whilst agitating the impregnated support particles;

(c) reducing the palladium and gold compounds of the impregnated support particles produced in step (b) to respective metals by adding the dried, impregnated support particles to an aqueous solution of hydrazine, whilst stirring, to form a slurry;

(d) ~~filtration of~~ filtering the slurry produced in step (c) to remove the excess reduction solution;

(e) washing the filter cake/slurry produced in step (d) with water and removing excess water to form a cake;

(f) impregnating the cake produced in step (e) with one or more salts of Group I, Group II, lanthanide and transition metals by blending the cake produced in step (e) with one or more solid salts of Group I, Group II, lanthanide and transition metals; and

(g) drying the impregnated cake produced in step (f) whilst agitating the impregnated cake to form free-flowing catalyst particles.

<sup>2</sup>  
~~40~~ (previously presented). A process according to claim <sup>1</sup>~~39~~, wherein in step (a) the microspheroidal silica support particles are impregnated by the incipient wetness technique whilst continuously agitating the support particles.

<sup>3</sup> ~~41~~ (previously presented). A process according to claim <sup>1</sup>~~39~~ in which the palladium compound is selected from the group consisting of palladium acetate, sulphate, nitrate, chloride, halogen-containing palladium compounds and Group I and Group II salts of halogen-containing palladium compounds.

<sup>4</sup> ~~42~~ (previously presented). A process according to claim <sup>1</sup>~~39~~ wherein the gold compound is selected from the group consisting of gold chloride, dimethyl gold acetate, barium acetoaurate, gold acetate, tetrachloroauric acid and Group I and II salts of tetrachloroauric acid.

<sup>5</sup>  
~~43~~ (previously presented). A process according to claim <sup>1</sup>~~39~~ in which step (b) comprises agitating the impregnated support particles whilst applying external heat at a temperature in the range 50 to 200°C.

<sup>6</sup>  
~~44~~ (previously presented). A process according to claim <sup>1</sup>~~39~~ wherein in step (g) the cake is dried at a temperature in the range from 60 to 150°C.

<sup>7</sup>  
~~45~~ (previously presented). A process according to claim ~~39~~<sup>1</sup> in which the microspheroidal support particles are selected from the group consisting of silica, alumina, zirconia and mixtures thereof.

<sup>8</sup>  
~~46~~ (previously presented). A process as according to claim ~~39~~<sup>1</sup> in which step (a) and step (b) are performed in the same apparatus, said apparatus comprising a vessel being capable of being heated and agitated simultaneously.

<sup>9</sup>  
~~47~~ (previously presented). A process according to claim ~~46~~<sup>8</sup> wherein step (a) and step (b) are performed in an agitated blender.

<sup>10</sup>  
~~48~~ (previously presented). A process according to claim ~~39~~<sup>1</sup> in which step (f) and step (g) are performed in the same apparatus, said apparatus comprising a blender.

<sup>11</sup>  
~~49~~ (previously presented). A process according to claim ~~39~~<sup>1</sup> wherein the concentration of hydrazine in the aqueous solution is 1 to 20 wt%.

<sup>12</sup>  
~~50~~ (previously presented). A process according to claim ~~49~~<sup>11</sup> wherein the concentration of hydrazine is 3 to 20 wt%.

<sup>13</sup>  
~~51~~ (previously presented). A process according to claim ~~39~~<sup>1</sup> wherein the aqueous solution of hydrazine has not been rendered alkaline by an alkali metal hydroxide.

<sup>14</sup>  
~~52~~ (previously presented). A process according to claim ~~53~~<sup>1</sup> comprising preparing a catalyst containing at least about 0.1wt% to about 5wt% palladium and about 0.1 to about 3wt% gold.

<sup>16</sup>  
~~53~~ (previously presented). A process for impregnating microspheroidal catalyst support particles with at least one compound of a catalytically active group VIII noble metal, which process comprises the steps of:

(a') impregnating the microspheroidal support particles by the incipient wetness technique with an aqueous solution of the at least one catalytically active group VIII noble metal, whilst agitating the support particles; and

(b') drying the impregnated support particles produced in step (a') whilst agitating the impregnated support particles;

wherein steps (a') and (b') are performed in the same apparatus, said apparatus comprising an agitated blender.

<sup>17</sup> ~~54~~<sup>16</sup> (previously presented). A process according to claim ~~53~~<sup>16</sup> in which step (b') comprises agitating the impregnated support particles whilst applying external heat at a temperature in the range 50 to 200°C.

<sup>18</sup>  
~~55~~ (previously presented). A process according to claim ~~53~~<sup>16</sup> in which the microspheroidal support particles are selected from the group consisting of silica, alumina, zirconia and mixtures thereof.

<sup>19</sup>  
~~56~~ (previously presented). A process according to claim <sup>16</sup>~~53~~ in which the at least one catalytically active group VIII noble metal comprises palladium.

<sup>20</sup>  
~~57~~ (previously presented). A process according to claim <sup>16</sup>~~53~~ further comprising a step (c'), which comprises, contacting the impregnated support particles with a reducing agent to convert the at least one compound to its respective metal.

~~24~~<sup>21</sup>  
~~58~~ (previously presented). A process according to claim <sup>20</sup>~~57~~ wherein the impregnated support particles are added to a solution of a reducing agent active for reduction of the at least one metal compound to its respective metal whilst stirring.

<sup>22</sup>  
~~59~~ (previously presented). A process according to claim <sup>20</sup>~~57~~ wherein the reducing agent comprises an aqueous solution of hydrazine.

<sup>23</sup>  
~~60~~ (previously presented). A process according to claim <sup>22</sup>~~59~~ wherein the concentration of hydrazine in the aqueous solution is 1 to 20 wt%.

<sup>24</sup>  
~~61~~ (previously presented). A process according to claim <sup>23</sup>~~60~~ wherein the concentration of hydrazine is 3 to 20 wt%.

<sup>28</sup>  
~~62~~ (previously presented). A process according to claim <sup>16</sup>~~53~~ in which the at least one compound of a catalytically active metal impregnated in the support comprises palladium and gold compounds.

<sup>15</sup>  
~~63~~ (previously presented). A process according to claim <sup>1</sup>~~39~~ in which unreacted hydrazine washed from the material after the reduction step is decomposed in the absence of an oxidant over a supported ruthenium catalyst to nitrogen and ammonia.

<sup>25</sup>  
~~64~~ (previously presented). A process according to claim <sup>20</sup>~~57~~ further comprising a step (d') wherein the support particles are further impregnated with one or more salts of Group I, Group II, lanthanide and transition metals, by blending the particles with one or more solid salts of Group I, Group II, lanthanide and transition metals in the presence of a solvent for the salt in which the solvent is contained within the pore volume of the catalyst support particle.

<sup>26</sup>  
~~65~~ (previously presented). A process according to claim <sup>25</sup>~~64~~ wherein the solvent is water.

<sup>27</sup>  
~~66~~ (previously presented). A process according to claim <sup>25</sup>~~64~~ which further comprises a step (e') wherein the impregnated particles are dried at a temperature in the range from 60°C to 150°C.

67-70 (cancelled).

<sup>29</sup>  
~~71~~ (previously presented). A process for impregnating porous microspheroidal particles with one or more salts of Group I, Group II, lanthanide and transition metals which process comprises blending the particles with one or more solid salts of Group I, Group II, lanthanide and transition metals in the presence of a solvent for the salt in which the solvent is contained within the pore volume of the support particle.

<sup>30</sup>  
~~72~~ (previously presented). A process according to claim <sup>29</sup>~~71~~ wherein the solvent is water.

<sup>31</sup>  
~~73~~ (previously presented). A process according to claim <sup>29</sup>~~71~~ which further comprises the step of drying the impregnated particles at a temperature in the range from 60°C to 150°C.

<sup>32</sup>  
~~74~~ (previously presented). A process according to claim <sup>29</sup>~~71~~ wherein the blending is performed in a blender.

<sup>33</sup>  
~~75~~ (previously presented). A process according to claim <sup>29</sup>~~71~~ in which the microspheroidal support particles are selected from the group consisting of silica, alumina, zirconia and mixtures thereof.